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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/04/2009

Fellers, Snider, Blankenship,
Bailey & Tippens, P.C.
Suite 1700
100 North Broadway
Oklahoma City, OK 73102-8820

EXAMINER

WOLLSCHLAGER, JEFFREY MICHAEL

ART UNIT

PAPER NUMBER

1791

DATE MAILED: 08/04/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,150	03/02/2004	David D. Brause	3123-552 (STL07651)	3169

TITLE OF INVENTION: FIXTURELESS METHOD OF MANUFACTURE OF BONDED ACTUATOR/COIL ASSEMBLIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	11/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE** OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 08/04/2009

Fellers, Snider, Blankenship,
 Bailey & Tippens, P.C.
 Suite 1700
 100 North Broadway
 Oklahoma City, OK 73102-8820

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10791,150

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nonprovisional

NO

\$1510

\$0

\$0

\$1510

11/04/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
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WOLLSCHLAGER, JEFFREY MICHAEL

1791

264-261000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number** is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Date _____

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Suite 1700
100 North Broadway
Oklahoma City, OK 73102-8820

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 287 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 287 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability**Application No.**

10/791,150

Applicant(s)

BRAUSE ET AL.

Examiner

JEFFREY WOLLSCHLAGER

Art Unit

1791

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on June 1, 2009.
2. ☒ The allowed claim(s) is/are 1-9,13-35 and 37-39.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Jeff Wollschlager/
Examiner, Art Unit 1791

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Tyler Mantooth on July 24, 2009.

The application has been amended as follows:

Claim 1 (amended): A method comprising the steps of:
overmolding a coil to an actuator to attach said coil to said actuator via an intervening overmold material, wherein the overmold material has at least one localized area of reduced thickness along [the] a joint connecting the coil to the actuator; and
disposing an adhesive in at least one adhesive receptacle defined in the overmold material so that the adhesive contactingly engages the coil and the actuator to increase a vibrational stiffness response of the actuator and the coil, wherein said disposing step is executed after said overmolding step and wherein the adhesive is disposed only in the at least one adhesive receptacle.

Claim 7 (amended): A method, as claimed in Claim 1, wherein:
said overmolding step comprises forming a first overmolded part and forming a first adhesive receptacle in said first overmolded part[, wherein said disposing step is executed only within said first adhesive receptacle].

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Claim 17 (amended): A method comprising the steps of:

disposing a coil and an actuator in a mold;

executing a first molding step comprising molding a first molded part that

structurally joins said coil to said actuator, wherein said first molding step is executed within said mold;

executing a second molding step comprising molding a bobbin that structurally joins said coil to said bobbin, wherein said coil is disposed about at least part of said bobbin, and wherein said second molding step is also executed within said mold;

forming at least one adhesive receptacle in at least one of said first molded part or said bobbin during at least one of said first and second molding steps wherein [the overmold] a molding material has at least one localized area of reduced thickness along [the] a joint connecting the coil to the actuator and [the] a joint connecting the bobbin to the coil;

removing said actuator, said first molded part, said coil, and said bobbin from said mold as a single unit after completion of said first and second molding steps; and

disposing an adhesive in said at least one adhesive receptacle after said removing step to further adjoin the bobbin to the coil or the first molded part to the actuator to increase a vibrational stiffness of said single unit, wherein the adhesive is disposed only in the at least one adhesive receptacle.

Claim 22, line 3, after "of" inserted - - said - - .

Claim 29 (amended): A method comprising the steps of:

employing an initial overmolding operation to attach a coil to an actuator via an overmolding material while forming [an] at least one adhesive receptacle in said

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material, wherein the overmold material has at least one localized area of reduced thickness along [the] a joint connecting the coil to the actuator; and subsequently filling the at least one adhesive receptacle with an adhesive to further attach said coil to said actuator and increase a vibrational stiffness response associated with the actuator, wherein the adhesive contactingly engages the coil and the actuator and wherein the adhesive is disposed only in the at least one adhesive receptacle.

Claim 31, line 3, after "the" inserted - - at least one - - .

Claim 33 (amended): A method, as claimed in claim [31] 32 wherein: said overmolded operation comprises forming the at least one adhesive receptacle in said first overmolded part.

Claim 37 (amended): A method comprising the steps of:
employing an initial overmolding operation to attach a voice motor coil to a bobbin via an overmolding material while forming [an] at least one adhesive receptacle in said material, wherein the overmold material has at least one localized area of reduced thickness along [the] a joint connecting the coil to the bobbin; and subsequently filling the at least one adhesive receptacle with an adhesive to further attach said bobbin to said coil and increase a vibrational stiffness response associated with the bobbin, wherein the adhesive contactingly engages the coil and the bobbin and wherein the adhesive is disposed only in the at least one adhesive receptacle.

Claims 1-9, 13-35 and 37-39 are allowed. The following is an examiner's statement of reasons for allowance: Regarding claim 1, the prior art of record does not teach or suggest a method of overmolding a coil to an actuator via an intervening overmold material and disposing an adhesive in at least one adhesive receptacle defined in the overmold material so that the adhesive contactingly engages the coil and the actuator and including the adhesive being only disposed in the at least one adhesive receptacle and including the overmold material has at least one localized area of reduced thickness along a joint connecting the coil to the actuator in combination with the other features instantly claimed.

Regarding claim 17, the prior art of record does not teach or suggest a molding method of structurally joining an actuator and a coil and forming a bobbin and a molded part so that the actuator, the molded part, the coil and the bobbin are removed from the mold as a single unit and disposing an adhesive in at least one adhesive receptacle formed in the molded part and including the adhesive being only disposed in the at least one adhesive receptacle and including the molding material has at least one localized area of reduced thickness along a joint connecting the coil to the actuator and a joint connecting the bobbin to the coil in combination with the other features instantly claimed.

Regarding claim 29, the prior art of record does not teach or suggest a method of employing an initial overmolding operation to attach a coil to an actuator via an overmolding material while forming at least one adhesive receptacle in the overmolding material and filling an adhesive in the at least one adhesive receptacle to further attach the coil to the actuator so that the adhesive contactingly engages the coil and the actuator and including the adhesive being only disposed in the at least one adhesive receptacle and including the overmold material has at least one localized area of reduced thickness along a joint connecting the coil to the actuator in combination with the other features instantly claimed.

Regarding claim 37, the prior art of record does not teach or suggest a method of employing an initial overmolding operation to attach a voice motor coil to a bobbin via an overmolding material while forming at least one adhesive receptacle in the overmolding material and filling an adhesive in the at least one adhesive receptacle to further attach the voice motor coil to the bobbin so that the adhesive contactingly engages the voice motor coil and the bobbin and including the adhesive being only disposed in the at least one adhesive receptacle and including the overmold material has at least one localized area of reduced thickness along a joint connecting the coil to the bobbin in combination with the other features instantly claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEFFREY WOLLSCHLAGER whose telephone number is (571)272-8937. The examiner can normally be reached on Monday - Thursday 6:45 - 4:15, alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on 571-272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1791

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jeff Wollschlager/
Examiner, Art Unit 1791

August 3, 2009